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P R E M I U M S

OFFERED BY THE

S O C I E T Y

INSTITUTED AT LONDON,

FOR THE ENCOURAGEMENT OF

ARTS, MANUFACTURES,

AND

COMMERCE,

IN

THE YEAR M.DCCCIII.

TO THE PUBLIC.

JOHN-STREET, ADELPHI.

THE chief objects of the Society are to promote the Arts, Manufactures, and Commerce of this Kingdom, by giving Rewards for all such useful INVENTIONS, DISCOVERIES, and IMPROVEMENTS, (though not mentioned in this Book), as tend to that purpose ; and, in pursuance of this Plan, the Society have already expended near FIFTY THOUSAND POUNDS, advanced by Voluntary Subscription of their Members, and Legacies bequeathed.

The manner in which this Money has been distributed, may be seen by applying to the Secretary or other Officers of the Society, at their House in the Adelphi. The Register of the Premiums and Bounties they have given, will show the very great advantages which the Public have derived from ~~this~~ Institution.

The Meetings of the Society are held every Wednesday, at Seven o'clock in the Evening,

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from

the fourth Wednesday in October to the first Wednesday in June. The several Committees meet on other evenings in the week during the session.

In order still farther to promote the laudable views of the Society, it may be necessary to explain the mode by which its Members continue to be elected.

Each Member has the privilege, at any weekly meeting of the Society, of proposing any person who is desirous to become a Member, provided such proposal is signed by three Members of the Society.

Peers of the Realm, or Lords of Parliament, are, upon their being proposed, immediately balloted for, and the name, with the addition and place of abode, of every other person proposing to become a Member, is to be delivered to the Secretary, who is to read the same, and properly insert the name in a list, which is to be hung up in the Society's room until the next meeting, at which time such person shall be balloted for; and if two thirds of the Members
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then voting ballot in his favour, he shall be deemed a Perpetual Member, upon payment of Twenty Guineas at one payment, or a Subscribing Member, upon payment of any sum not less than Two Guineas annually.

Every Member is entitled to vote and be concerned in all the transactions of the Society, and to attend and vote at the several Committees. He has also the privilege of recommending two persons as Auditors, at the weekly meeting of the SOCIETY; and, by addressing a note to the Housekeeper, of introducing his friends to examine the various models, machines, and productions in different branches of arts, manufactures, and commerce, for which rewards have been bestowed; and to inspect the magnificent series of moral and historical paintings so happily contrived and completed by JAMES BARRY, Esq. which, with some valuable busts and statues, decorate the Great Room. He has likewise the use of a valuable Library; and is entitled to the annual Volume of the Society's Transactions.

The time appointed for admission to the paintings or models, is from ten to two o'clock, Sundays and Wednesdays excepted.

Premiums for Planting and Husbandry.

Class 1. ACORNS. For having set, between the first of October, 1802, and the first of April, 1803, the greatest quantity of land, not less than ten acres, with Acorns, with or without seeds, cuttings, or plants of other trees, at the option of the candidate; and for effectually fencing and preserving the same, in order to raise timber; the GOLD MEDAL.

2. For the second greatest quantity of land, not less than five acres, set agreeably to the above conditions; the SILVER MEDAL.

CERTIFICATES of setting agreeably to the above conditions, and that there are not fewer than three hundred young Oaks on each acre, to be delivered to the Society on or before the first Tuesday in December, 1803.

3. RAISING OAKS. To the person who shall have raised, since the year 1799, the greatest number of Oaks, not fewer than five thousand, either from young plants or acorns, in order to secure a succession of oak timber in this kingdom; the GOLD MEDAL.

4. For the next greatest number, not fewer than three thousand; the SILVER MEDAL.

CERTIFICATES that there were on the land, at least the number of young Oak-trees required, in a thriving condition, two years after the planting, with an Account of the methods,

methods pursued in making and managing the plantation, to be produced to the Society on or before the first Tuesday in January, 1804.

5. ASCERTAINING THE BEST METHOD OF RAISING OAKS. To the person who shall ascertain in the best manner, by actual experiments, the comparative merits of the different modes of raising Oaks for timber, either from acorns set on land properly dug or tilled, from acorns set by the spade or dibble, without digging or tillage, either on a smooth surface, or among bushes, fern, or other cover; or from young plants previously raised in nurseries, and transplanted, regard being had to the expense, growth, and other respective advantages of the several methods; the GOLD MEDAL.

The ACCOUNTS and proper CERTIFICATES that not less than one acre has been cultivated in each mode, to be produced to the Society on or before the first Tuesday in November, 1803.

6. CHESNUTS. For having sown or set, between the first of October, 1802, and the first of April, 1803, the greatest quantity of dry loamy land, not less than six acres, with Spanish Chesnuts, with or without seeds, cuttings, or plants of other trees adapted to such soil, at the option of the Candidate; and for effectually fencing and preserving the same, in order to raise timber; the GOLD MEDAL.

7. For the second greatest quantity, not less than four acres; the SILVER MEDAL.

PREMIUMS IN

CERTIFICATES of sowing or setting agreeably to the above conditions, and that there are not fewer than three hundred Chesnut plants, in a thriving state, on each acre, to be delivered to the Society on or before the first Tuesday in January, 1804.

8. **ELM.** For having planted the greatest number of the English Elm, not less than eight thousand, between the twenty-fourth of June, 1801, and the twenty-fourth of June, 1802; and for the having effectually fenced and preserved the same, in order to raise timber; the **GOLD MEDAL**.

9. For the second greatest number, not less than five thousand; the **SILVER MEDAL**.

CERTIFICATES of the having planted agreeably to the above conditions, that the plants were in a healthy and thriving state two years at least after making the plantation, and specifying the distance of the plants, to be delivered to the Society on or before the first Tuesday in April, 1804.

10. **LARCH.** For having planted out, between the twenty-fourth of June, 1800, and the twenty-fourth of June, 1801, the greatest number of Larch-trees, not fewer than five thousand; and for having effectually fenced and preserved the same, in order to raise timber; the **GOLD MEDAL**.

11. For the next greatest number, not fewer than three thousand; the **SILVER MEDAL**.

CERTIFICATES of the number of plants, that they were in a healthy and thriving state two years at least after they
were

were planted out, with a general ACCOUNT of the methods used in making the plantation, to be delivered to the Society on or before the last Tuesday in December, 1803.

12, 13. The same premiums are extended one year farther.

CERTIFICATES to be produced on or before the last Tuesday in December, 1804.

N. B. The Larch-trees may be either planted, mixed with other trees, or by themselves, as may best suit the convenience of the planter.

14. OSIERS. To the person who shall have planted, between the 1st of October, 1802, and the 1st of May, 1803, the greatest quantity of land, not less than five acres, with those species of willows, commonly known by the names of Osier, Spaniard, New Kind, or French, fit for the purpose of basket-makers, not fewer than twelve thousand plants on each acre; the GOLD MEDAL, or THIRTY GUINEAS.

15. For the second greatest quantity of land, not less than three acres; the SILVER MEDAL, or TEN GUINEAS.

CERTIFICATES of the planting, and that the plants were in a thriving state five months at least after the planting, to be produced to the Society on or before the last Tuesday in November, 1803.

16, 17. The same premiums are extended one year farther.

CERTIFICATES to be produced on or before the last Tuesday in November, 1804.

18. ALDER.

18. ALDER. For having planted, in the year 1800, the greatest number of alders, not less than three thousand; the GOLD MEDAL.

CERTIFICATES of the number of plants, and that they were in a thriving state at least two years after being planted, to be delivered to the Society on or before the last Tuesday in December, 1803.

19. ASH. For having sown or set, in the year 1800, the greatest quantity of land, not less than six acres, with Ash for timber, with or without seeds, cuttings, or plants of such other trees as are adapted to the soil; the GOLD MEDAL.

20. For the next greatest quantity, not less than four acres, the SILVER MEDAL.

CERTIFICATES of the sowing or setting agreeably to the above conditions; that there are not fewer than one hundred Ash plants on each acre, in a thriving and healthy condition, two years at least after the sowing or setting, with a general ACCOUNT of the methods used in making the plantation; to be delivered to the Society on or before the last Tuesday in December, 1803.

21, 22. The same premiums are extended one year farther.

CERTIFICATES to be delivered on or before the last Tuesday in December, 1804.

N. B. It is the particular wish of the Society, that such lands only as are not calculated for growing corn, should

should be employed for the purposes specified in these advertisements.

23. **TIMBER TREES.** To the person who shall have enclosed, planted, or sown, the greatest number of acres, not less than ten, with the best sorts of forest-trees, adapted to the soil, for timber, between the first of October, 1799, and the first of May, 1801; the **GOLD MEDAL.**

AN ACCOUNT of the methods used in making the plantations, and the nature of the soil, together with proper **CERTIFICATES** that the trees were in a thriving and healthy state two years at least after making the plantation, to be delivered to the Society on or before the first Tuesday in November, 1803.

N. B. With the above forest-trees, the seeds, cuttings, or plants, of such other trees as are adapted to the soil, and proper for underwood, may or may not be intermixed.

24. **FOREST TREES.** To the person who shall have enclosed and planted, or set, the greatest number of acres (not less than ten) of land, that is incapable of being ploughed, such as the borders of rivers, the sides of precipices, and any land that has too many rocks, or that is not calculated to repay the expence of tillage, owing to the stiffness or poverty of the soil, the surface being too hilly, mountainous, or otherwise unfit for tillage, with the best sort of forest-trees, namely, oak, Spanish chesnuts, ash, elm, beech, alder, willow, larch, spruce and silver fir, with or without screens of Scotch fir, adapted to the soil, and intended for
timber-

timber-trees, between the first of October, 1801, and the 1st of April, 1802; the GOLD MEDAL.

25. For the second greatest quantity of land, not less than seven acres; the SILVER MEDAL, or TWENTY GUINEAS.

26. For the third greatest quantity of land, not less than five acres, the SILVER MEDAL.

A particular ACCOUNT of the methods used in making and managing the plantations, the nature of the soil, the probable number of each sort of plants, together with proper CERTIFICATES that they were in a healthy and thriving state two years at least after making the plantation, to be delivered to the Society on or before the first Tuesday in November, 1804.

27, 28, 29. The same premiums are extended one year farther. CERTIFICATES to be produced on or before the first Tuesday in November, 1805.

N. B. The Candidates for planting all kinds of trees are to produce Certificates that the respective plantations are properly fenced and secured, and particularly to state the condition of the plants at the time of signing such CERTIFICATES. Any information which the candidates for the foregoing premiums may choose to communicate, relative to the methods made use of in forming the plantations, or promoting the growth of the several trees, or any other observations that may have occurred on the subject, will be thankfully received.

30. SECURING

30. SECURING PLANTATIONS OF TIMBER-TREES AND HEDGE-ROWS. To the person who shall give to the Society the most satisfactory Account, founded on experience, of the most effectual and least expensive method of securing young plantations of Timber-trees and Hedge-rows from Hares and Rabbits, as well as Sheep and larger cattle, which at the same time shall be least subject to the depredations of wood-stealers; the **SILVER MEDAL, or TWENTY GUINEAS.**

The **ACCOUNTS** and **CERTIFICATES** of the efficacy of the method to be produced to the Society on or before the first Tuesday in November, 1803,

31. The premium is extended one year farther.

The **ACCOUNTS** and **CERTIFICATES** to be produced on or before the first Tuesday in November, 1804,

32. COMPARATIVE TILLAGE. For the most satisfactory set of experiments, made on not less than eight acres of land, four of which to be trench-ploughed*, and four to be ploughed in the usual manner, in order to ascertain in what cases it may be advisable to shorten the operations of tillage, by adopting one trench-ploughing, for the purpose of burying the weeds, instead of the method, now in common use, of ploughing and harrowing the land three or four times, and raking the weeds together and burning them; the **GOLD MEDAL, or FORTY GUINEAS.**

It

* It is a common practice among Gardeners, when they have a piece of very foul land, to dig it two spits, or about eighteen inches deep, shovelling the weeds to the bottom. This they call trenching.

It is required that every operation and expense attending each mode of culture be fully and accurately described, and that proper CERTIFICATES of the nature and condition of the land on which the experiments are made, together with a circumstantial ACCOUNT of the appearance of the subsequent crops during their growth ; and also of the quantity and weight of the corn and straw under each mode of culture, or, in case of a green crop, the weight of an average sixteen perches, be produced to the Society on or before the first Tuesday in February, 1804.

33. COMPARATIVE CULTURE OF WHEAT, BROAD-CAST, DRILLED, AND DIBBLED. For the best set of experiments made on not less than twelve acres, four of which to be sown broad-cast, four drilled, and four dibbled, the two latter in equidistant rows, in order fully to ascertain which is the most advantageous mode of cultivating wheat; the GOLD MEDAL, or FORTY GUINEAS.

It is required that every operation and expense of each mode of culture be fully described, and that proper CERTIFICATES of the nature and condition of the land on which the experiments are made, together with an account of the produce of the corn, the weight per bushel, and also of the straw, be produced to the Society on or before the first Tuesday in February, 1804.

34. SPRING WHEAT. To the person who, between the tenth of January and the tenth of April, 1803, shall cultivate the greatest quantity of wheat, not less than ten acres; the SILVER MEDAL, or TWENTY GUINEAS,

It is required that the time of sowing and reaping be noticed; also a particular Account of the species, cultivation, and expense attending it, with proper Certificates of the nature and condition of the land on which the experiments were made, and the name of the crop, if any, which the same land bore the preceding year; together with an Account of the produce, the weight per Winchester bushel; and a sample, not less than a quart, be produced to the Society on or before the second Tuesday in February, 1804.

It is supposed that sowing wheat early in the spring will not only allow more time to till the land, but less for the growth of weeds; thus rendering the wheat as clean as a barley crop, and exhausting the soil much less than autumnal sowing. It may be seen in the 19th Volume, that the wheat usually sown in autumn may be put into the ground, with great success, so late as February or March, thus giving time to clear the ground from turnips, or to avoid a bad season.

35. BEANS AND WHEAT. To the person who shall have dibbled or drilled, between the first of December, 1802, and the first of April, 1803, the greatest quantity of land, not less than ten acres, with beans, in equidistant rows, and hoed the intervals twice or oftener, and shall have sown the same land with wheat in the autumn of the year 1803; the SILVER MEDAL, or TWENTY GUINEAS.

It is required that an Account of the sort and quantity of beans, the time of dibbling or drilling, and of reaping or mowing them, the produce per acre thrashed, the expense of dibbling or drilling, hand or horse

horse hoeing, the distance of the rows, and the quality of the soil, together with CERTIFICATES of the number of acres, and that the land was afterwards actually sown with wheat, be produced on or before the second Tuesday in March, 1804.

36. BEANS. To the person who, in the year 1802, shall discover and cultivate, either by the drill or dibbling method, on not less than five acres, a species of horse-beans or tick beans, that will ripen their seeds before the twenty-first of August; the SILVER MEDAL, or TWENTY GUINEAS.

It is required that a particular ACCOUNT of the bean, the cultivation, and the expense attending it, with proper CERTIFICATES of the nature and condition of the land on which the experiments are made, together with an ACCOUNT of the produce, the weight per Winchester bushel, and a sample of not less than a quart, be produced to the Society on or before the first Tuesday in December, 1803. It is apprehended that, if a bean should be brought into cultivation with the habits of the hotspur, or other early peas, it would, in a great measure, escape the danger arising from the collier-insect, or other insects, and allow more time for the farmers to till the land for the subsequent crop of wheat.

The ACCOUNTS and CERTIFICATES to be delivered on or before the first Tuesday in December, 1803.

37. The same premium is extended one year farther.

The ACCOUNTS and CERTIFICATES to be delivered on or before the first Tuesday in December, 1804.

38. COM-

38. COMPARATIVE CULTURE OF TURNIPS. For the best set of experiments made on not less than eight acres of land, four of which to be sown broad-cast and four drilled, to ascertain whether it is most advantageous to cultivate turnips by sowing them broad-cast and hand-hoeing them, or by drilling them in equidistant rows, and hand or horse hoeing the intervals; the **SILVER MEDAL, or TWENTY GUINEAS,**

It is required that every operation and expense of each mode of culture be fully described, and that proper **CERTIFICATES** of the nature and condition of the land on which the experiments were made, together with the weight of the turnips grown, on a fair average sixteen perches of land, under each mode of culture, be produced to the Society on or before the first Tuesday in March, 1804.

The object which the Society have in view in offering this premium, is experimentally to ascertain the most advantageous method of growing turnips. To do this in a satisfactory manner, both the drilled and broad-cast crops should have the advantage of the most perfect cultivation; consequently the drilled crops should have the intervals between the rows worked by the horse or hand hoe, or by both these implements; and the rows should be either weeded or hand-hoed, or both weeded and hand-hoed. The broad-cast crop should have every advantage which weeding and hand-hoeing can give it, consistently with leaving the soil a flat surface.

39. The same premium is extended one year farther.

CERTIFICATES to be produced on or before the first Tuesday in March, 1805.

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40. PAR-

40. **PARSNIPS.** To the person who, in the year 1803, shall cultivate the greatest quantity of land, not less than five acres, with parsnips, for the sole purpose of feeding cattle or sheep; the **GOLD MEDAL**, or **THIRTY GUINEAS**.

CERTIFICATES of the quantity of land so cultivated, with a particular **ACCOUNT** of the nature of the soil and weight of the produce on sixteen perches, and also of the condition of the cattle or sheep fed with the parsnips, and the advantages resulting from the practice, to be produced to the Society on or before the second day in November, 1804.

41. **BUCK WHEAT.** To the person who shall cultivate the greatest quantity of land with buck wheat, not less than thirty acres; the **GOLD MEDAL**.

It is required that the time of sowing and reaping be noticed, also a particular **ACCOUNT** of the species, cultivation, and expense attending it, the manner of reaping it, thrashing it, and housing the grain, with proper **CERTIFICATES** of the nature and condition of the land on which the experiments were made, and the name of the crop, if any, which the same land bore the preceding year, together with an **ACCOUNT** of the produce, and a sample of the seed, not less than a quart, be produced to the Society on or before the second Tuesday in January, 1804.

42. For the next greatest quantity, not less than fifteen acres, on similar conditions; the **SILVER MEDAL**.

Information respecting its application to the feeding of cattle, hogs, and poultry, and other of its uses, is also desired. It is known to be particularly serviceable in furnishing honey to bees.

43. **RAISING**

43. RAISING GRASS SEEDS. To the person who shall raise the greatest quantity of each or any of the following named grass seeds, viz.—Meadow fox-tail (*alopecurus pratensis*), sweet-scented vernal grass (*anthoxanthum odoratum*), Timothy grass, meadow Fescue grass, smooth-stalked meadow grass (*poa pratensis*), rough-stalked meadow grass (*poa trivialis*); the SILVER MEDAL, or TEN GUINEAS.

It is required that CERTIFICATES from persons who have viewed them in a proper state, to identify that they are one or other of the seeds above mentioned, indicating clearly the particular species, and noticing the quantity produced of such seeds, free from weeds or mixture of other grasses, together with proper samples of the seeds, be produced to the Society on or before the first day of February, 1804.

44. The same premium is extended one year farther. CERTIFICATES to be produced on or before the first day of February, 1805.

45. ROTATION OF CROPS. To the person who shall, between the 10th of August, 1801, and the 10th of September, 1803, cultivate the greatest quantity of land, not less than forty acres, in the following rotation, viz.—1st, winter-ares, 2d, turnips, and 3d, wheat, and apply the two former crops, in the best and most farmer-like manner, to the rearing, supporting, and fattening horses, cattle, sheep, or hogs, on the land which produced the crops; the GOLD MEDAL, or ONE HUNDRED GUINEAS.

46. For the next in quantity and merit, on not less than thirty acres; the SILVER MEDAL, or FIFTY GUINEAS.

47. For the next in quantity and merit, on not less than twenty acres; the SILVER MEDAL.

It is required that every operation and expense be fully described, and that satisfactory CERTIFICATES of the nature and condition of the soil on which the crops have grown, together with an ACCOUNT of their appearance, the number of horses and cattle, sheep or hogs, fed by the two green crops, and, as near as possible, the improved value of the live stock by the consumption of those crops, and also the quantity of wheat per acre, and its weight per bushel, be produced to the Society on or before the first day of November, 1804.

It is presumed that very great advantages will arise to such agriculturists as shall adopt this rotation of crops on a dry soil. They will be enabled, with the addition of a few acres of turnip-rooted cabbage, for spring-food, to keep such large flocks of sheep and herds of neat cattle as may secure a sufficient quantity of manure to fertilize their land in the highest degree, and in every situation. It is farther conceived that wheats which will bear sowing in the spring will be particularly suitable for this premium.

48. 49. 50. The same premiums are extended one year farther.

CERTIFICATES to be delivered on or before the first day of November, 1805.

51. PRE-

51. PRESERVING TURNIPS. To the person who shall discover to the Society the best and cheapest method of preserving turnips perfectly sound, and in every respect fit for the purpose of supporting and fattening sheep and neat cattle, during the months of February, March, and April; the **GOLD MEDAL, or THIRTY GUINEAS.**

It is required that a full and accurate **ACCOUNT** of the method employed, and the expense attending the process, together with **CERTIFICATES** that the produce of four acres at the least have been preserved according to the method described, and applied to the feeding of sheep and neat cattle; that the whole were drawn out of the ground before the first day of February, in order to clear the greater part of it previous to its being prepared for corn, and to save the soil from being exhausted by the turnips, and also of the weight of an average sixteen perches of the crop, be produced to the Society on or before the first Tuesday in November, 1804,

N. B. It is recommended to those who may be induced to try the necessary experiments for obtaining this and the following four premiums, to consider the method employed for the preservation of potatoes in ridges (which the growers call pies), and also the propriety of adopting a similar method in cases where they are previously frozen. It is supposed that, in the latter instance, the addition of ice or snow, and the construction of the ridges upon a large scale, may be sufficient to preserve the freezing temperature till the vegetables are wanted for the use of cattle or sheep, at which time they may be thawed by immersion in cold water; and the *rot* which a sudden thaw produces may be prevented.

52. For the next in quantity and merit, on not less than two acres, the SILVER MEDAL, or FIFTEEN GUINEAS,

53. PRESERVING CABBAGES. To the person who shall discover to the Society the best and cheapest method of preserving drum-headed cabbages perfectly sound, and in every respect fit for the purpose of supporting and fattening sheep and neat cattle during the months of February, March, and April; the GOLD MEDAL, or THIRTY GUINEAS,

54. For the next in quantity and merit, on not less than two acres; the SILVER MEDAL or FIFTEEN GUINEAS.

Conditions the same as for preserving turnips. Cl. 51, And the ACCOUNTS to be produced on or before the first Tuesday in November, 1804.

55. PRESERVING CARROTS, PARSNIPS, OR BEETS. To the person who shall discover to the Society the best and cheapest method of preserving carrots, parsnips, or beets, perfectly sound, and in every respect fit for the purpose of supporting horses, and fattening sheep and neat cattle, during the months of February, March, and April; the SILVER MEDAL, or FIFTEEN GUINEAS.

Conditions the same as for preserving turnips, Cl. 51; and the ACCOUNTS to be delivered in, on or before the first day in November, 1804.

56. PRESERVING POTATOES. To the person who shall discover to the Society the best and cheapest method

method of preserving potatoes, two or more years, perfectly sound, without vegetating, and in every other respect fit for the purpose of sets and the use of the table, and, consequently, of supporting and fattening cattle; the SILVER MEDAL, or TWENTY GUINEAS.

It is required, that a full and accurate ACCOUNT of the method employed, and the expense attending the process, with CERTIFICATES that one hundred bushels at the least have been preserved according to the method described, and that one or more bushels of the same potatoes have been set, and produced a crop without any apparent diminution of their vegetative power; and also that they have been used at table, with entire satisfaction to the person who eat of them, together with a sample of one bushel, be sent to the Society on or before the first Tuesday in November, 1804.

57. MAKING MEADOW-HAY IN WET WEATHER. To the person who shall discover to the Society the best and cheapest method, superior to any hitherto practised, of making meadow-hay in wet weather; the GOLD MEDAL, or THIRTY GUINEAS.

A full ACCOUNT of the method employed, and of the expense attending the process, with not less than fifty-six pounds of the hay; and CERTIFICATES that at least the produce of six acres of land has been made according to the method described, and that the whole is of equal quality with the samples; to be produced on or before the first Tuesday in January, 1804.

58. HARVESTING CORN IN WET WEATHER. To the person who shall discover to the Society the best and cheapest method, superior to any hitherto practised, of harvesting corn in wet weather; the GOLD MEDAL, or THIRTY GUINEAS.

A full ACCOUNT of the method employed, and of the expense attending the process, with not less than two sheaves of the corn, and CERTIFICATES that at least the produce of ten acres has been harvested according to the method described, and that the whole is of equal quality with the samples, to be produced on or before the first Tuesday in January, 1804.

59. ASCERTAINING THE COMPONENT PARTS OF ARABLE LAND. To the person who shall produce to the Society the most satisfactory set of experiments to ascertain the due proportion of the several component parts of rich arable land, in one or more counties in Great Britain, by an accurate analysis of it; and who, having made a like analysis of some poor arable land, shall, by comparing the component parts of each, and thereby ascertaining the deficiencies of the poor soil, improve a quantity of it, not less than one acre, by the addition of such parts as the former experiments shall have discovered to be wanting therein, and therefore probably the cause of its sterility; the GOLD MEDAL, or FORTY GUINEAS.

It is required that the manurings, ploughings, and crops, of the improved land, be the same after the improvement as before; and that a minute ACCOUNT of the produce in each state, of the weather, and of the various influencing circumstances, together with the method made use of in analysing

Analysing the soils, be produced, with proper CERTIFICATES and the chemical results of the analysis, which are to remain the property of the Society, on or before the last Tuesday in February, 1804.

It is expected that a quantity, not less than six pounds, of the rich, of the poor, and of the improved soils, be produced with the CERTIFICATES.

60. GAINING LAND FROM THE SEA. To the person who shall produce to the Society an account, verified by actual experiment, of his having gained the greatest quantity of land from the sea, not less than fifty acres, on the coast of Great Britain or Ireland; the GOLD MEDAL.

CERTIFICATES of the quantity of land, and that the experiments were begun after the 1st of January, 1797, to be produced to the Society on or before the last Tuesday in October, 1803.

61. The same premium is extended one year farther. CERTIFICATES to be produced on or before the last Tuesday in October, 1804.

62. The same premium is extended one year farther. CERTIFICATES to be produced on or before the last Tuesday in October, 1805.

63. IMPROVING LAND LYING WASTE. For the most satisfactory account of the best method of improving any of the following soils, being land lying waste or uncultivated, viz. clay, gravel, sand, chalk, peat-earth, and

and bog, verified by experiments on not less than fifty acres of land; the GOLD MEDAL, or THIRTY GUINEAS.

64. For the next greatest quantity, not less than thirty acres; the SILVER MEDAL, or TWENTY GUINEAS.

It is required that the land before such improvement be absolutely uncultivated, and in a great measure useless, and that, in its improved state, it be inclosed, cultivated, and divided into closes,

CERTIFICATES of the number of acres, of the quality of the land so improved, with a full ACCOUNT of every operation and expense attending such improvement, the state it is in as to the proportion of grass to arable, and the average value thereof, to be produced on or before the first Tuesday in February, 1804,

65. MANURES. For the most satisfactory set of experiments, to ascertain the comparative advantages of the following manures, used as top-dressings on grass or corn land, viz. soot, coal-ashes, wood-ashes, lime, gypsum, night-soil, or any other fit article; the GOLD MEDAL, or the SILVER MEDAL and TWENTY GUINEAS.

It is required that the above experiments be made between two or more of the above-mentioned manures, and that not less than two acres of land be dressed with each manure. An ACCOUNT of the nature of the soil, quantity and expense of the manure and crops, with CERTIFICATES to be produced on or before the last Tuesday in February, 1804.

66. The

66. The same premium is extended one year farther.

The ACCOUNTS and CERTIFICATES to be produced on or before the last Tuesday in February, 1805.

67. RAISING WATER FOR THE IRRIGATION OF LAND. To the person who shall discover to the Society the cheapest and most effectual method of raising water in quantities sufficient to be beneficially employed for the purpose of irrigating land, superior to and cheaper than any other method now in use; the GOLD MEDAL, or FIFTY GUINEAS.

A model on a scale of one inch to a foot, with CERTIFICATES that a machine at large on the same construction has been used, specifying the quantity of water delivered in gallons per hour, and the height to which it was raised, to be produced to the Society on or before the first of March, 1804.

68. The same premium is extended one year farther.

CERTIFICATES to be produced on or before the first of March, 1805.

69. PARING PLOUGH. To the person who shall invent and produce to the Society a machine or plough for the purpose of paring land, preparatory to burning, superior to any hitherto known or in use for such purpose, and to be worked by not more than one man and two horses, the SILVER MEDAL, or TWENTY GUINEAS.

The

The MACHINE, and CERTIFICATES that at least three acres have been pared by it in a proper manner, to be produced to the Society on or before the 1st of January, 1804.

70. MACHINE FOR DIBBLING WHEAT. To the person who shall invent a machine, superior to any hitherto known or in use, to answer the purpose of dibbling wheat, by which the holes for receiving the grain may be made at equal distances and proper depths, the SILVER MEDAL, and TEN GUINEAS.

The MACHINE, with CERTIFICATES that at least three acres have been dibbled by it, to be produced to the Society on or before the second Tuesday in January, 1804.

Simplicity and cheapness in the construction will be considered as principal parts of its merit.

71. MACHINE FOR REAPING OR MOWING CORN. For inventing a machine to answer the purpose of mowing or reaping wheat, rye, barley, oats, or beans, by which it may be done more expeditiously and cheaper than by any method now practised, provided it does not shed the corn or pulse more than the methods in common practice, and that it lays the straw in such a manner that it may be easily gathered up for binding; the GOLD MEDAL, or THIRTY GUINEAS.

The MACHINE, with CERTIFICATES that at least three acres have been cut by it, to be produced to the Society on or before the second Tuesday in December, 1803.

Simplicity

Simplicity and cheapness in the construction will be considered as principal parts of its merit.

72. THRASHING MACHINE. To the person who shall invent a machine by which corn of all sorts may be thrashed more expeditiously, effectually, and at a less expense, than by any method now in use; the **GOLD MEDAL, or THIRTY GUINEAS.**

The MACHINE, or a model, with proper CERTIFICATES that such a machine has been usefully applied, that at least thirty quarters have been thrashed by it, and of the time employed in the operation, to be produced to the Society on or before the last Tuesday in February, 1804.

73. DESTROYING THE GRUB OF THE COCK-CHAFER. To the person who shall discover to the Society an effectual method, verified by repeated and satisfactory trials, of destroying the grub of the cockchafer, or of preventing or checking the destructive effects which always attend corn, peas, beans, and turnips, when attacked by those insects; the **GOLD MEDAL, or THIRTY GUINEAS.**

The ACCOUNTS, with proper CERTIFICATES, to be produced on or before the first Tuesday in January, 1804.

74. DESTROYING WORMS. To the person who shall discover to the Society an effectual method, verified by repeated and satisfactory trials, of destroying worms, or of preventing the destructive effects they occasion on corn, beans, peas, or other pulse; the **GOLD MEDAL, or THIRTY GUINEAS.**

The

The ACCOUNTS, with proper CERTIFICATES, to be produced to the Society on or before the first Tuesday in January, 1804.

75. DESTROYING THE FLY ON HOPS. To the person who shall discover to the Society an easy and efficacious method of destroying the fly on hops, superior to any hitherto known or practised, on not less than four acres of hop-ground; the GOLD MEDAL, or THIRTY GUINEAS.

ACCOUNTS and CERTIFICATES to be delivered to the Society on or before the first Tuesday in February, 1804.

76. PREVENTING THE BLIGHT, OR RAVAGES OF INSECTS ON FRUIT-TREES AND CULINARY PLANTS. To the person who shall discover to the Society the most effectual method of preventing the blight, or ravages of insects, on fruit-trees and culinary plants, superior to any hitherto known or practised, and verified by actual and comparative experiments; the GOLD MEDAL, or THIRTY GUINEAS.

The ACCOUNTS with proper CERTIFICATES to be delivered to the Society on or before the second Tuesday in November, 1803.

77. The same premium is extended one year farther.

The ACCOUNTS and CERTIFICATES to be delivered on or before the second Tuesday in November, 1804.

78. REMOVING THE ILLEFFECTS OF BLIGHTS, OR INSECTS. To the person who shall discover to the Society

Society the most effectual method of removing the ill effects of blights, or insects, on fruit-trees and culinary plants, superior to any hitherto known or practised, and verified by actual and comparative experiments; the GOLD MEDAL, or THIRTY GUINEAS.

The ACCOUNTS and CERTIFICATES to be delivered to the Society on or before the first Tuesday in February, 1804.

79. CURE OF THE ROT IN SHEEP. To the person who shall discover to the Society the best and most effectual method of curing the rot in sheep, verified by repeated and satisfactory experiments; the GOLD MEDAL, or FIFTY GUINEAS.

It is expected that the candidates furnish accurate ACCOUNTS of the symptoms and cure of the disease, together with the imputed cause thereof, and the actual or probable means of prevention, which, with proper CERTIFICATES, must be delivered to the Society on or before the first Tuesday in February, 1804.

80. CURE OF THE FOOT-ROT IN SHEEP. To the person who shall discover to the Society the best and most effectual method of curing the foot-rot in sheep; the GOLD MEDAL, or THIRTY GUINEAS.

It is required that the cure be ascertained by repeated and satisfactory experiments, and the method of performing it be verified by proper CERTIFICATES delivered to the Society on or before the first Tuesday in February, 1804.

81. PRE-

81. PREVENTING THE ILL EFFECTS OF FLIES ON SHEEP. To the person who shall discover to the Society the most effectual method of protecting sheep from being disturbed and injured by flies; the **SILVER MEDAL, or TWENTY GUINEAS.**

It is required that the method be ascertained by repeated experiments, and that a **CERTIFICATE** of its efficacy be delivered to the Society on or before the first Tuesday in December, 1803.

82. PROTECTING SHEEP. To the person who, in the year 1803, shall protect the greatest number of sheep, not fewer than one hundred, by hovels, sheds, or any other means, and give the most satisfactory account, verified by experiment, of the advantages arising from the practice of protecting sheep from the inclemency of the weather, by hovels, sheds, or any other means; the **SILVER MEDAL, or TWENTY GUINEAS.**

A particular **ACCOUNT** of the experiments made, with the advantages arising therefrom, together with the expense, and **CERTIFICATES** of its utility, to be produced to the Society on or before the first Tuesday in March, 1804.

83. The same premium is extended one year farther. The **ACCOUNTS** and **CERTIFICATES** to be delivered on or before the first Tuesday in March, 1805.

N.B. It is required that the **CERTIFICATES** shall specify the length of time the sheep were so protected, and the manner in which they were maintained during that time, together with the general method of managing them.

84. IM-

84. IMPROVING THE CONDITION OF THE LABOURING POOR, BY ERECTING COTTAGES, AND APPORTIONING LAND. To the person who, in the year 1802, shall erect the greatest number of cottages for the accommodation of the labouring poor, and apportion not less than two acres of land to each cottage, the GOLD MEDAL.

The ACCOUNTS and CERTIFICATES to be delivered to the Society on or before the first Tuesday in February, 1804.

85. The same premium is extended one year farther. The ACCOUNTS and CERTIFICATES to be delivered to the Society on or before the first Tuesday in February, 1805.

86. IMPROVING THE CONDITION OF THE LABOURING POOR, BY APPORTIONING LAND TO COTTAGES. To the person who, in the year 1802, shall apportion to the greatest number of cottages already built upon his or her estate, any quantity of land, not less than two acres to each cottage, for the better accommodation of the respective inhabitants; the GOLD MEDAL.

The ACCOUNTS of the number of cottages, and of the quantity of land apportioned to each, to be delivered to the Society, with proper CERTIFICATES, on or before the first Tuesday in February, 1804.

87. The same premium is extended one year farther.

The ACCOUNTS and CERTIFICATES to be delivered on or before the first Tuesday in February, 1805.

88. CULTURE OF HEMP IN CERTAIN PARTS OF SCOTLAND. The Society for the Encouragement of Arts, Manufactures, and Commerce, wishing to encourage the growth of hemp for the use of the Navy, in certain parts of Scotland, comprehending the whole county of Argyle, that part of Perthshire situated to the north of the river Tay, and west of the Military Road (see Ainslie's Map of Scotland) leading from Logierait to the county of Inverness, and such other parts of Scotland as lie north of Inverness-shire, offers to the person who shall sow with hemp, in drills at least eighteen inches asunder, the greatest quantity of land, in the above-mentioned district, not less than fifty acres statute measure, in the year 1803, and shall at the proper season cause to be plucked the summer hemp (or male hemp bearing no seed), and continue the winter hemp (or female hemp bearing seed) on the ground until the seed is ripe; the GOLD MEDAL, or FIFTY GUINEAS.

89. To the person who shall sow with hemp (in drills at least eighteen inches asunder) the next greatest quantity of land in the same above-mentioned district, not less than twenty-five acres statute measure, in the year 1803, and shall at the proper season cause the same to be plucked as above mentioned; the SILVER MEDAL, or TWENTY-FIVE GUINEAS.

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CERTIFICATES of the number of acres, of the distance of the drills, of the plucking of the hemp, with a general **ACCOUNT** of the soil, cultivation, and producè, to be delivered to the Society, along with fourteen pounds of the hemp, and two quarts of the seed, on or before the second Tuesday in January, 1804.

*Premiums for Discoveries and Improvements
in Chemistry, Dying, and Mineralogy.*

90. PRESERVING SEEDS OF VEGETABLES.

For the best methods of preserving the seeds of plants in a state fit for vegetation, a longer time than has hitherto been practised, such method being superior to any known to the public, and verified by sufficient trial, to be communicated to the Society on or before the first Tuesday in December, 1803; the GOLD MEDAL, or THIRTY GUINEAS.

91. PREVENTING THE DRY-ROT IN TIMBER.

To the person who shall discover to the Society the cause of the dry-rot in timber, and disclose a certain method of prevention superior to any hitherto known; the GOLD MEDAL, or THIRTY GUINEAS.

The ACCOUNTS of the cause, and method of prevention, confirmed by repeated experiments, to be produced to the Society on or before the second Tuesday in December, 1803.

92. PRESERVING SALTED PROVISIONS FROM BECOMING RANCID OR RUSTY. To the person who shall discover to the Society the best, cheapest, and most efficacious method of preserving salted provisions from growing rancid or rusty; the GOLD MEDAL, or THIRTY GUINEAS.

A full description of the method, with proper CERTIFICATES that it has been found, on repeated trials, to
answer

answer the purpose intended, to be produced to the Society on or before the first Tuesday in February, 1804.

93. **CLEARING FEATHERS FROM THEIR ANIMAL OIL.** To the person who shall discover to the Society, the best and most expeditious method, superior to any hitherto practised, of clearing goose-feathers from their offensive animal oil, for the use of upholders, in making beds, cushions, &c. the **SILVER MEDAL, or TWENTY GUINEAS.**

A quantity of such feathers unstripped and so cleared, not less than forty pounds weight, with a full **ACCOUNT** of the process, to be produced to the Society on or before the first Tuesday in February, 1804.

94. **REFINING WHALE OR SEAL OIL.** For disclosing to the Society an effectual method of purifying whale or seal oil from the glutinous matter that incrusts the wicks of lamps, and extinguishes the light, though fully supplied with oil; the **GOLD MEDAL, or FIFTY GUINEAS.**

It is required that the whole of the process be fully and fairly disclosed, in order that satisfactory experiments may be made by the Society to determine the validity of the claim; and **CERTIFICATES** that not less than twenty gallons have been purified according to the process delivered in, together with two gallons of the oil, in its unpurified state, and two gallons so refined, be produced to the Society on or before the second Tuesday in February, 1804.

95. **MANUFACTURING TALLOW CANDLES.** To the person who shall discover to the Society a method of

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hardening

hardening or otherwise preparing tallow, so that candles may be made of it which will burn as clear and with as small a wick as wax candles, without running, and may be afforded at a less expense than any at present made with spermaceti; the GOLD MEDAL, or THIRTY GUINEAS.

CERTIFICATES that 112lb. of such tallow have been made into candles, and 12lb. of the candles made thereof, to be produced to the Society on or before the second Tuesday in January, 1804.

96. CANDLES FROM RESIN OR OTHER SUBSTANCES. To the person who shall discover to the Society the best method of making candles of resin, or any other substance, fit for common use, at a price much inferior to those made of tallow only; the GOLD MEDAL, or THIRTY GUINEAS.

Six pounds at least of the candles so prepared, with an ACCOUNT of the process, to be delivered to the Society on or before the first Tuesday in December, 1803.

97. METHOD OF SEPARATING SUGAR IN A SOLID FORM FROM TREACLE. To the person who shall discover to the Society the best method of separating sugar from treacle in a solid form, at such an expense as will render it advantageous to the public; the GOLD MEDAL, or FIFTY GUINEAS.

A quantity of the sugar so prepared in a solid form, not less than thirty pounds weight, with an ACCOUNT of the process, and CERTIFICATES that not less than one hundred weight has been prepared, to be produced to the Society on or before the first Tuesday in February, 1804.

98. PROOF-

98. PROOF-SPIRIT. To the distiller who, in the year 1803, shall make the greatest quantity, not less than one hundred gallons, of a clean marketable spirit, from articles not the food of man or cattle, equal in strength or quality to the proof-spirit now in use, and at a rate not higher than the spirit produced from corn or melasses; the GOLD MEDAL, or ONE HUNDRED GUINEAS.

Ten gallons of the spirit, together with proper CERTIFICATES, and a full ACCOUNT of the expense and mode of making it, to be produced to the Society on or before the first Tuesday in January, 1804.

99. INCREASING STEAM. To the person who shall invent and discover to the Society a method, verified by actual experiments, of increasing the quantity or force of steam, in steam-engines, with less fuel than has hitherto been employed, provided that in general the whole amount of the expenses in using steam-engines may be considerably lessened; the GOLD MEDAL, or THIRTY GUINEAS.

To be communicated to the Society on or before the first Tuesday in January, 1804.

100. SUBSTITUTE FOR TAR. To the person who shall invent and discover to the Society the best substitute for Stockholm tar, equal in all its properties to the best of that kind, and prepared from materials the produce of Great Britain; the GOLD MEDAL, or ONE HUNDRED GUINEAS.

A quantity of the substitute, not less than one hundred weight, with CERTIFICATES that at least one ton has

been manufactured, and that it can be afforded at a price not exceeding that of the best foreign tar, together with an **ACCOUNT** of the process, to be delivered to the Society on or before the first Tuesday in March, 1804.

101. PREPARATION OF TAN. To the person who shall prepare in the most concentrated form, so as to be easily portable, and at a price applicable to the purposes of manufactures, the largest quantity, not less than one hundred weight, of the principle called by the French *tannin*, which abounds in oak-bark and many other vegetable substances; the **GOLD MEDAL**, or **FIFTY GUINEAS**,

CERTIFICATES of the above quantity having been prepared, and a sample of not less than 28lb. to be produced to the Society on or before the last Tuesday in January, 1804.

102. INDELIBLE INK. To the person who shall discover to the Society, a method of making a black ink proper for writing, superior to any at present known, indestructible by chemical applications, and not dearer than that which is now in common use; the **SILVER MEDAL**, or **FIFTEEN GUINEAS**,

CERTIFICATES that not less than two gallons of such ink have been actually prepared and found to possess the qualities above mentioned, with a full detail of the process of making it, and two quarts of the ink, to be delivered to the Society on or before the second Tuesday in January, 1804.

103. PRE-

103. PREPARATION OF A RED STAIN FOR COTTON CLOTH. To the person who shall communicate to the Society, the cheapest and most effectual method of printing or staining cotton cloths with a red colour, by an immediate application of the colouring matter to the cloth, equally beautiful and durable with the red colours now generally procured from decoctions of madder; the GOLD MEDAL, or THIRTY GUINEAS.

CERTIFICATES that the above process has been advantageously used on ten pieces of calico, each twenty-one yards or upwards in length, one piece of the calico so printed, a quart of the colour in a liquid state, and a full ACCOUNT of the preparation and application, to be produced to the Society on or before the second Tuesday in January, 1804.

104. PREPARATION OF A GREEN COLOUR FOR PRINTING COTTON CLOTH. To the person who shall communicate to the Society the best and cheapest method of printing with a full green colour on cotton cloth, by an immediate application of the colouring matter from a wooden block to the cloth, equally beautiful and durable as the colours now formed from the complicated process of the decoction of weld on alumine and the solutions of indigo by earths or alkaline salts; the GOLD MEDAL, or THIRTY GUINEAS.

CERTIFICATES and conditions as for premium 103.

105. SUBSTITUTE FOR THE BASIS OF PAINT. To the person who shall produce to the Society the best substitute, superior to any hitherto known, for the basis of paint,

paint, equally proper for the purpose as the white lead now employed; such substitute not to be of a noxious quality, and to be afforded at a price not materially higher than that of white lead; the GOLD MEDAL, or ONE HUNDRED GUINEAS.

A quantity of the substitute, not less than 50lb. weight, with an ACCOUNT of the process used in preparing it, and CERTIFICATES that at least one hundred weight has been manufactured, to be produced to the Society on or before the first Tuesday in January, 1804.

106. RED PIGMENT. To the person who shall discover to the Society a full and satisfactory process for preparing a red pigment, fit for use, in oil and water, equal in tone and brilliancy to the best carmines and lakes now known or in use, and perfectly durable; the GOLD MEDAL, or THIRTY GUINEAS.

One pound weight of such colour, and a full disclosure of its preparation, to be produced to the Society on or before the first Tuesday in February, 1804.

N.B. It is not required that the colour should resist the action of fire or chemical applications, but remain unaltered by the common exposure to strong light, damp, and noisome vapours.

107. ULTRAMARINE. To the person who shall prepare an artificial ultramarine, equal in colour, brilliancy, or durability, to the best prepared from lapis lazuli, and which may be afforded at a cheap rate; the GOLD MEDAL, or THIRTY GUINEAS.

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The Conditions are the same as in the preceding premium for the red pigment.

108. ANALYSIS OF BRITISH MINERALS. To the person who shall communicate to the Society, the most correct analysis of any mineral production of Great Britain, hitherto either unexamined, or not examined with accuracy; the GOLD MEDAL.

The analysis and sufficient specimens to be produced to the Society on or before the first Tuesday in January, 1804.

109. STATUARY MARBLE. To the person who shall discover, within Great Britain or Ireland, a quarry of white marble fit for the purposes of statuary, and equal in all respects to those kinds now imported from Italy; the GOLD MEDAL, or ONE HUNDRED POUNDS.

A block of at least three feet in length, two in height, and two in width, with an ACCOUNT of the situation of the quarry, and CERTIFICATES of its possessing considerable extent, to be produced to the Society on or before the first Tuesday in February, 1804.

N. B. In order to prevent useless expense or trouble to the claimant in forwarding so large a block, the Society will be ready to examine any smaller specimen of the marble, and express their opinion of its value to the candidate before the block required by the above premium is produced.

110. PREPARATION OF SULPHURIC ACID
FROM SULPHUR WITHOUT THE USE OF ANY
NITRIC

NITRIC SALT. To the person who shall prepare the largest quantity (not less than one ton) of sulphuric acid from sulphur, without any nitric salt, of a specific gravity not inferior to the best sulphuric acid of commerce; the **GOLD MEDAL, or FIFTY GUINEAS.**

CERTIFICATES that not less than the above quantity of such an acid has been prepared, together with a sample, to be produced to the Society on or before the first Tuesday in January, 1804,

111. PREPARATION OF ANY ALKALINE OR EARTHY NITRATE. To the person who shall prepare in Great Britain, the largest quantity, not less than one hundred weight, of any salt of nitric acid, with either earths or alkalis, by a method superior to and as cheap as those hitherto practised; the **GOLD MEDAL, or ONE HUNDRED GUINEAS,**

CERTIFICATES of the above quantity having been prepared, and a sample of not less than 28lb. to be produced to the Society on or before the last Tuesday in January, 1804.

112. FINE BAR IRON. To the person, in Great Britain, who shall make the greatest quantity of bar iron, not less than ten tons, with coak, from coak pigs, equal in quality to the best iron imported from Sweden or Russia, and as fit for converting into Steel; the **GOLD MEDAL, or FIFTY GUINEAS.**

Samples, not less than one hundred weight, with **CERTIFICATES** that the whole quantity is of equal quality, to be

be produced to the Society on or before the first Tuesday in January, 1804.

113. PRESERVING IRON FROM RUST. To the person who shall invent and discover to the Society a clean composition, superior to any now in use, which shall effectually preserve wrought iron from rust; the **GOLD-MEDAL, or FIFTY GUINEAS.**

A full description of the method of preparing the composition, with **CERTIFICATES** that it has stood at least two years unimpaired, being exposed to the atmosphere during the whole time, to be produced to the Society, with ten pounds weight of the composition, on or before the first Tuesday in January, 1804.

114. REFINING BLOCK TIN. To the person who shall discover to the Society the best method of purifying or refining block tin, so as to render it fit for the finest purposes to which grain tin is now applied, and not higher in price; the **GOLD MEDAL, or FIFTY GUINEAS.**

CERTIFICATES that not less than three tons have been refined or purified, with a full detail of the process, and a quantity, not less than one hundred weight, of the tin so refined, to be produced to the Society on or before the first Tuesday in January, 1804.

115. GLAZING EARTHEN-WARE WITHOUT LEAD. To the person who shall discover to the Society the cheapest, safest, most durable, and most easily fusible composition, fit for the purpose of glazing the ordinary kinds of earthen-ware, without any preparation of lead,
and

and superior to any hitherto in use; the **GOLD MEDAL, or THIRTY GUINEAS.**

Specimens of the ware so glazed, with proper **CERTIFICATES** of its having succeeded, and a sample of the materials made use of, to be produced to the Society on or before the first Tuesday in February, 1804.

116. REFINING COPPER FROM THE ORE. To the person who shall discover to the Society the best method of separating, purifying and refining copper from the ore, so as to render it fit for the finest purposes to which fine copper is now applied, and by a process superior to any hitherto known or in use, and not higher in price; the **GOLD MEDAL, or FIFTY GUINEAS.**

CERTIFICATES that not less than three tons have been so prepared or refined, and a quantity not less than one hundred weight of the copper so refined, to be produced to the Society on or before the first Tuesday in February, 1804.

117. MINERALOGICAL MAP OF ENGLAND AND WALES. To the person who shall complete and publish an accurate mineralogical map of England and Wales, on a scale of not less than ten miles to an inch, containing an Account of the situation of the different mines therein, and describing the kinds of minerals therein produced; the **GOLD MEDAL, or FIFTY GUINEAS.**

CERTIFICATES of the accuracy of such map, together with the map, to be produced to the Society on or before the first Tuesday in February, 1804.

The map to remain the property of the Society.

118. MI-

118. MINERALOGICAL MAP OF IRELAND. The same premium is offered for a mineralogical map of Ireland on similar conditions.

119. MINERALOGICAL MAP OF SCOTLAND. The same premium is offered for a mineralogical map of Scotland, on similar conditions.

120. NATURAL HISTORY. To the author who shall publish, in the year 1803, the natural history of any county in England or Wales; the **GOLD MEDAL, or FIFTY GUINEAS.**

It is required that the several natural productions, whether animal, or vegetable, or mineral, peculiar to the county, or found therein, be carefully and specifically arranged and described, in order that the public may be enabled to judge what arts or manufactures are most likely to succeed in such county. The work to be delivered to the Society on or before the last Tuesday in January, 1804.

Premiums in Polite Arts.

121. HONORARY PREMIUMS FOR DRAWING, BY NOBILITY. For the best original drawing, of any kind, by young gentlemen under the age of twenty-one, sons or grandsons of peers, or peeresses in their own right, of Great Britain or Ireland, to be produced on or before the first Tuesday in March, 1804; the HONORARY MEDAL of the Society in Gold.

122. The same in Silver for the best copy.

123, 124. The same premiums will be given, on the like conditions, to young ladies, daughters or grand-daughters of peers, or peeresses in their own right, of Great Britain or Ireland.

125. HONORARY PREMIUMS FOR DRAWING, BY GENTLEMEN. For the best original drawing, of any kind, by young gentlemen under the age of twenty-one, to be produced on or before the first Tuesday in March, 1804; the GOLD MEDAL.

126. For the best copy, the SILVER MEDAL.

127, 128. The same premiums will be given for drawings by young ladies.

N. B. As the foregoing honorary premiums are intended only for such of the nobility and gentry as may hereafter

after become patrons or patronesses of the arts, persons professing any branch of the polite arts, or any business dependent on the arts of design, or the sons or daughters of such persons, will not be admitted candidates in these classes.

129. DRAWINGS OF OUTLINES. For the best outline, after a cast, in plaster, of the Apollo Belvidere, by persons of either sex, under the age of sixteen, the figure not less than eighteen inches, to be produced on or before the last Tuesday in February, 1804; the Greater SILVER PALLET.

130. For the next in merit; the Lesser SILVER PALLET.

131. DRAWINGS OF LANDSCAPES. For the best drawing, in water-colours, of a landscape after nature, not less than eighteen inches by twelve, by persons of either sex, under twenty-one years of age, to be produced on or before the last Tuesday in February, 1804; the GOLD PALLET.

132. For the next in merit, the Greater SILVER PALLET.

Each candidate must mention, on the front of the Drawing, whence the view was taken.

133. HISTORICAL DRAWINGS. For the best historical drawing, being an original composition, of five or more human figures, the height of the principal figure not

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less than eight inches, to be produced on or before the third Tuesday in February, 1804; the GOLD PALLET.

134. For the next in merit, the Greater SILVER PALLET.

135. LINE ENGRAVINGS OF LANDSCAPES. For the best line engraving of a landscape, published in the year 1803, the size of the engraving not less than eighteen inches by fourteen; the GOLD MEDAL.

To be produced to the Society on or before the last Tuesday in January, 1804, and the impression to which the premium is adjudged remain the property of the Society.

136. For the next in merit; the SILVER MEDAL, on similar conditions.

137. LINE ENGRAVINGS OF HISTORICAL SUBJECTS. For the best line engraving published in the year 1803, of an historical subject, the size of the engraving not less than eighteen inches by fourteen; the GOLD MEDAL.

138. For the next in merit, the SILVER MEDAL, Conditions, &c. the same as in Classes 135 and 136.

139, 140, 141, 142. The same premiums are extended one year farther.

N. B. It is not necessary, in the classes of the line engravings, for the artist's name to be concealed. The first aquafortis proof of the above plates are required to be sent
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in with the finished impression, and CERTIFICATES that the etchings are the entire work of the candidate.

143. MODEL IN CLAY OR PLASTER. For the best model in clay or plaster of an ornamental design for the purpose of embellishing works of Architecture; the **SILVER MEDAL**, or **TWENTY GUINEAS**.

To be produced to the Society on or before the last Tuesday in January, 1804. The model not to be less than thirty inches by twelve.

144. PERSPECTIVE DRAWINGS OF MACHINES. For the best perspective drawing of machines by persons under eighteen years of age; the Greater **SILVER PALLET**.

To be produced to the Society on or before the last Tuesday in January, 1804.

145. For the next in merit; the Lesser **SILVER PALLET**, on similar conditions.

146. ENGRAVING ON WOOD, OR METAL BLOCKS, &c. For the best engraving on wood or metal blocks, or on any other material, so that the same may be rendered capable of composition with the letter-press, of any allegorical or other subject suited to the embellishment of the letter-press; the **GOLD PALLET**.

147. For the next in merit, the Greater **SILVER PALLET**.

Two or more impressions, along with the block, to be produced to the Society on or before the last Tuesday in February, 1804.

The impressions, but not the block, to remain the property of the Society.

148. BRONZES. For the best drapery figure or group cast in bronze; if a single figure, not less than twelve inches high; and if a group, not less than nine inches; and which will require the least additional labour to repair; the **GOLD MEDAL**, or the **SILVER MEDAL** and **TWENTY GUINEAS**.

The cast to be exhibited to the Society before it is begun to be repaired, with the original figure or group, on or before the first Tuesday in February, 1804, together with a full explanation of the whole process.

The following Premium (Class 149) is offered in conformity to the Will of the late John Stock, of Hampstead, Esq.

149. ORNAMENTAL DRAWINGS FOR ARCHITECTURAL DESIGNS. For the best ornamental drawing for the purpose of embellishing architectural designs; a **SILVER MEDALLION**, with the following engraved inscription: *The premium given by the Society for the Encouragement of Arts, Manufactures, and Commerce, in conformity to the Will of John Stock, of Hampstead, Esq.* The drawing to which the premium is adjudged to remain the property of the Society.

*Premiums for encouraging and improving
Manufactures.*

150. MACHINE FOR CARDING SILK. For the best machine, superior to any now in use, for carding waste silk equally well as by hand; to be produced, together with a specimen of the cardings, on or before the first Tuesday in November, 1803; the SILVER MEDAL, or TWENTY GUINEAS.

151. CLOTH FROM HOP-STALKS, &c. To the person who shall produce to the Society the greatest quantity, not less than thirty yards, of cloth at least twenty-seven inches wide, made in Great Britain, of hop-stalks or bines, or other raw vegetable substances, the produce of Great Britain or Ireland, superior to any hitherto manufactured from such substances, and which can be generally afforded as cheap as cloth of equal quality and appearance now made from hemp, flax, or cotton, and much finer in quality than any hitherto manufactured in England from hop-stalks, &c. the GOLD MEDAL, or THIRTY GUINEAS.

One pound of the thread of which the cloth is made, and thirty yards of the cloth, together with proper CERTIFICATES that the whole is manufactured from hop-stalks or bines, &c. to be produced to the Society on or before the first Tuesday in December, 1803.

N. B. The Society is already in possession of cloth made in England from hop-stalks or bines, which may be inspected by application to the housekeeper.

152. WICKS FOR CANDLES OR LAMPS. To the person who shall discover to the Society a method of manufacturing hop-stalks or bines, or any other cheap material, the growth of Great Britain, so as to render them equally fit for the purpose of supplying the place of cotton, for wicks of candles or lamps; TWENTY GUINEAS.

Samples, not less than five pounds weight, of the wicks so prepared, to be produced to the Society, with CERTIFICATES that the whole quantity is equal in quality to the sample, on or before the second Tuesday in January, 1804.

153. PAPER FROM RAW VEGETABLE SUBSTANCES. To the person, in Great Britain, who shall, between the first of January, 1803, and the first of January, 1804, make the greatest quantity, and of the best quality, (not less than ten reams) of good and useful paper, from raw vegetable substances, the produce of Great Britain or Ireland, of which one hundred weight has not been used in manufacturing paper previous to January, 1802, superior to any hitherto manufactured from such substances, and which can be generally afforded as cheap as paper of equal quality and appearance now made from rags; TWENTY GUINEAS.

N. B. The object of the Society being to add to the number and quantity of raw materials used in this manufacture, it is their wish to include every useful sort of paper,

paper, and to introduce such natural products as can be easily and cheaply procured in great quantities.

The Society are in possession of two volumes containing a great variety of specimens of paper made from raw vegetable substances, viz.—nettles, potatoe-hawlm, poplar, hop-bines, &c. which volumes may be inspected by any person on application to the house-keeper.

CERTIFICATES of the making such paper, and one ream of the paper, to be produced on or before the last Tuesday in January, 1804.

154. TRANSPARENT PAPER. To the person who shall discover to the Society a method of making paper from the pulp, that shall be perfectly transparent, and of a substance and body equal to fools-cap, that shall take and bear common writing ink with the same facility and correctness as writing paper generally in use; the **SILVER MEDAL**, or **TWENTY GUINEAS**.

CERTIFICATES of the making such paper, an **ACCOUNT** of the process, and one ream of the paper, to be produced on or before the second Tuesday in January, 1804.

155. CHINTS PATTERNS FOR CALICO PRINTERS. For the best original pattern, in a new taste, of light or dark ground chints for garment-work, fit for the purposes of calico-printers, by persons of either sex; the **GOLD MEDAL**.

To be produced to the Society on or before the second Tuesday in January, 1804.

The pattern to which the premium is adjudged to remain the property of the Society.

156. For the next in merit; the SILVER MEDAL, on similar conditions.

157. COPPER-PLATE PATTERNS FOR CALICO-PRINTERS. For the best pattern in a new style, fit for the purposes of calico-printers for garment-work; the SILVER MEDAL.

To be produced to the Society on or before the second Tuesday in January, 1804.

The pattern to which the premium is adjudged to remain the property of the Society.

Premiums in Mechanicks.

158. GUNPOWDER-MILLS. To the person who, in the year 1803, shall invent, and bring to perfection, the most effectual method of so conducting the works of gun-powder mills, in the business of making gun-powder, as to prevent explosion; the GOLD MEDAL, or ONE HUNDRED GUINEAS.

CERTIFICATES and ACCOUNTS of the method having been put in practice in one or more gun-powder mills in this kingdom, and that it promises, in the opinion of the best judges concerned in such works, to answer the purpose intended, to be produced to the Society on or before the first Tuesday in February, 1804.

N. B. As an encouragement to persons to turn their thoughts to improvements of this nature, if any should be made on the present method of conducting the business of gun-powder making, which fall short of the total prevention of explosion, and they are sent to the Society for the sake of humanity, the papers so sent in will receive due consideration, and such bounty or reward will be bestowed thereon as they appear to merit.

159. TRANSIT INSTRUMENT. To the person who shall invent and produce to the Society a cheap and portable transit instrument, which may easily be converted into a zenith-sector, capable of being accurately and expeditiously adjusted for the purpose of finding the latitudes
and

and longitudes of places, and superior to any portable transit instrument now in use; the GOLD MEDAL or FORTY GUINEAS.

To be produced on or before the last Tuesday in January, 1804.

160. TAKING WHALES BY THE GUN-HARPOON. To the person who, in the year 1803, shall strike the greatest number of whales, not fewer than three, with the gun-harpoon; TEN GUINEAS.

Proper CERTIFICATES of the striking such whales, and that they were actually taken in the year 1803, signed by the master, or by the mate when the claim is made by the master, to be produced to the Society on or before the last Tuesday in December, 1803.

161. FAMILY MILL. To the person who shall invent and produce to the Society the best constructed mill for grinding corn for the use of private families, or parish-poor; the construction to be such as to render the working of the mill easy and expeditious, and superior to any hitherto in use; the GOLD MEDAL, or THIRTY GUINEAS.

The mill, and CERTIFICATES of its having been used to good effect, to be produced to the Society on or before the first Tuesday in February, 1804.

N. B. Cheapness and simplicity will be considered as essential parts of its merit; and the mill, or the model, to remain with the Society.

162. MACHINE FOR RAISING COALS, ORE &c. &c. To the person who shall invent a machine for raising coals, or ore, &c. from mines, superior to any hitherto known or in use, and which shall produce the effect at a less expense than those already known or in use; the GOLD MEDAL, or FIFTY GUINEAS.

A model of the machine, made on a scale of not less than one inch to a foot, with a CERTIFICATE that a machine at large on the same construction has been advantageously used, to be produced to the Society on or before the second Tuesday in February, 1804.

163. MACHINE FOR RAISING WATER. To the person who shall invent a machine on a better, cheaper, and more simple construction than any hitherto known or in use, for raising water out of wells, &c. from a depth of not less than fifty feet; the GOLD MEDAL, or FORTY GUINEAS.

CERTIFICATES of the performance of the machine, and a model of it, on a scale of not less than one inch to a foot, to be produced to the Society on or before the first Tuesday in February, 1804.

164. MACHINE FOR MAKING BRICKS. To the person who shall invent the best and cheapest machine for making bricks, superior to any hitherto known or in use, whereby the labour and expense of making bricks, in the usual mode by hand, may be greatly diminished; the GOLD MEDAL, or FORTY GUINEAS.

A model, with CERTIFICATES that a machine at large, on the same construction, has been used to good effect for
the

the purpose of making bricks, and that at least one hundred thousand statute bricks have been made therewith, to be produced to the Society on or before the first Tuesday in March, 1804.

165. BORING AND BLASTING ROCKS. To the person who shall discover to the Society a more simple, cheap, and expeditious method than any hitherto known or in use, of boring and blasting rocks in mines, shafts, wells, &c. the **GOLD MEDAL, or THIRTY GUINEAS.**

CERTIFICATES of the method having been practised with success, with a full description thereof, to be delivered to the Society on or before the first Tuesday in January, 1804.

166. HEATING ROOMS FOR THE PURPOSES OF MANUFACTURERS. To the person who shall invent and discover to the Society a method of heating rooms, superior to any hitherto known or in use, and at a moderate expense, for the purposes of painters, japanners, and other manufacturers, so as to avoid the necessity of iron or copper tunnels going through the rooms to convey the smoke, whereby the danger from such tunnels may be prevented; the **GOLD MEDAL, or FORTY GUINEAS.**

A model, or complete drawing and description of the method, with **CERTIFICATES** that it has been successfully practised, to be delivered to the Society on or before the last Tuesday in March, 1804.

167. IMPROVED VENTILATION. To the person who shall invent and produce to the Society a mode of per-

permanently ventilating the apartments in hospitals, work-houses, and other crowded places, superior to any now known or used; the **GOLD MEDAL, or FIFTY GUINEAS.**

A model of the apparatus, and a full **ACCOUNT** of the means by which the effect has been produced, with proper **CERTIFICATES**, to be delivered to the Society on or before the last Tuesday in February, 1804.

168. PREVENTING ACCIDENTS FROM HORSES FALLING WITH TWO-WHEELED CARRIAGES.

To the person who shall invent and produce to the Society a method superior to any hitherto known or in use, to prevent accidents from the falling of horses with two-wheeled carriages, especially on steep declivities; the **SILVER MEDAL, or FIFTEEN GUINEAS.**

A model of the apparatus, and a full **ACCOUNT** of the means by which the effect has been produced, with proper **CERTIFICATES** that the same has been used with success, to be delivered to the Society on or before the second Tuesday in January, 1804.

169. CLEARING THE TURNPIKE AND OTHER ROADS FROM MUD AND DUST. To the person who shall discover to the Society the most effectual and the cheapest method, verified by experiments, of clearing the turnpike and other roads of great resort, from mud and dust, or most effectually preventing the accumulation of either; the **GOLD MEDAL, or FIFTY GUINEAS.**

169*. For the second best account; the **SILVER MEDAL, or TWENTY GUINEAS.**

It

It is required that an accurate **ACCOUNT** of the method used, and every expense attending it, together with satisfactory **CERTIFICATES** of its being effectual, be delivered on or before the first Tuesday in March, 1804.

170. CLEANSING CHIMNIES. To the person who shall invent and produce to the Society the most effectual mechanical or other means for cleansing chimnies from soot, and obviating the necessity of children being employed within the flues; the **GOLD MEDAL**.

171. For the next in mérit; the **SILVER MEDAL**.

The mechanical, or other means, with **CERTIFICATES** of their having been used with proper effect, to be produced to the Society on or before the first Tuesday in January, 1804.

172. CHIMNIES CLEANSED. To the person who shall, during the year 1803, cleanse or cause to be cleansed, the greatest number of chimnies, at least two stories high, not fewer than three hundred, by any mechanical or other process which does not require the employment of boys within the flues; the **GOLD MEDAL**.

CERTIFICATES, signed by not less than two thirds of those housekeepers or whose premises the said means have been employed, and an **ACCOUNT** of the process, to be produced to the Society on or before the first Tuesday in February, 1804.

173. To the person who shall cleanse, or cause to be cleansed, the next greatest number of chimnies, not fewer than

than one hundred and fifty, upon similar conditions to the above; the SILVER MEDAL.

174. RAISING THE BODIES OF PERSONS WHO HAVE SUNK UNDER WATER. To the person who shall invent and produce to the Society a cheap and portable drag, or other machine, superior to those now in use, for the purpose of taking up in the best and most expeditious manner, and with the least injury, the bodies of persons who have sunk under water; the GOLD MEDAL, or THIRTY GUINEAS.

The drag, or machine to answer the purpose intended, to be produced to the Society on or before the first Tuesday in March, 1804.

*Premiums offered for the Advantage of the
Commerce of the United Empire.*

175. TAKING PORPOISES. To the people in any boat or vessel, who, in the year 1803, shall take the greatest number of porpoises on the coast of Great Britain or Ireland by gun, harpoon, or any other method, not fewer than thirty, for the purpose of extracting oil from them; the **GOLD MEDAL, or THIRTY POUNDS.**

CERTIFICATES of the number, signed by the persons to whom they have been sold or delivered for the purpose of extracting the oil, to be produced to the Society on or before the last Tuesday in January, 1804.

176. OIL FROM PORPOISES. To the person who shall manufacture the greatest quantity of oil from porpoises taken on the coast of Great Britain, or Ireland, in the year 1803, not less than twenty tons; the **GOLD MEDAL, or THIRTY POUNDS.**

CERTIFICATES of the oil having been made from porpoises actually caught on the coast of Great Britain or Ireland, and two gallons of the oil as a sample, to be produced to the Society on or before the last Tuesday in February, 1804.

177. CURING HERRINGS BY THE DUTCH METHOD. To the person or persons who shall, before January, 1804, cure the greatest quantity of white herrings,
not

not less than thirty barrels, according to the method practised by the Dutch, and equal in all respects to the best Dutch herrings, the same being caught in the British or Irish Seas, and cured in a British or Irish vessel or port; the **GOLD MEDAL, or FIFTY GUINEAS.**

178. For the next greatest quantity, not less than fifteen barrels; the **SILVER MEDAL, or TWENTY GUINEAS.**

A sixteen-gallon barrel of the herrings to be produced to the Society on or before the first Tuesday in February, 1804, with **CERTIFICATES** that the conditions of the premium have been completely fulfilled, and that the whole were cured in the same manner as the specimen, together with a full description of the process employed, in order that the Society may judge how far the Dutch method has been adopted.

*Premiums offered for the Advantage of
the British Colonies.*

179. NUTMEGS. For the greatest quantity of merchantable nutmegs, not less than ten pounds weight, being the growth of his Majesty's dominions in the West Indies, or any of the British settlements on the coast of Africa, or the several islands adjacent thereto, and equal to those imported from the islands of the East Indies; the GOLD MEDAL, or ONE HUNDRED GUINEAS.

Satisfactory CERTIFICATES, from the governor, or commander in chief, of the place of growth, with an ACCOUNT of the number of trees, their age, nearly the quantity of fruit on each tree, and the manner of culture, to be produced on or before the first Tuesday in December, 1803.

180. The same premium is extended one year farther.

CERTIFICATES to be produced on or before the first Tuesday in December, 1804.

181. CLOVES. For importing into Great Britain or Ireland, in the year 1803, the greatest quantity of cloves, not less than twenty pounds weight, being of the growth of some of the islands of the West Indies, subject to the British Empire, or any of the British settlements on the coast of Africa, or the several islands adjacent thereto, and equal

equal in goodness to the cloves brought from the East Indies; the GOLD MEDAL, or FIFTY GUINEAS.

Samples, not less than two pounds weight, with CERTIFICATES that the whole quantity is equal in goodness, together with satisfactory CERTIFICATES, signed by the governor, or commander in chief, of the place of growth, with an ACCOUNT of the number of trees growing on the spot, their age, and the manner of culture, to be produced to the Society on or before the first Tuesday in January, 1804.

182. The same premium is extended one year farther.

CERTIFICATES to be produced on or before the first Tuesday in January, 1805.

183. KALI FOR BARILLA. To the person who shall have cultivated, in the Bahama Islands, or any other part of his Majesty's dominions in the West Indies, or any of the British settlements on the coast of Africa, or the several islands adjacent thereto, in the year 1802, the greatest quantity of land, not less than two acres, with Spanish kali, fit for the purpose of making barilla; the GOLD MEDAL, or THIRTY GUINEAS.

184. For the next greatest quantity, not less than one acre; the SILVER MEDAL, or FIFTEEN GUINEAS.

CERTIFICATES, signed by the governor, or commander in chief for the time being, of the quantity of land so cultivated, and of the state of the plants at the time of signing such Certificates, to be delivered to the Society, with samples of the kali, on or before the second Tuesday in January, 1804.

185, 186. The same premiums are extended one year farther.

CERTIFICATES to be produced on or before the second Tuesday in January, 1805.

187. DESTROYING THE INSECT COMMONLY CALLED THE BORER. To the person who shall discover to the Society an effectual method of destroying the insect, commonly called the borer, which has, of late years, been so destructive to the sugar-canes in the West-India islands, the British settlements on the coast of Africa, and the several islands adjacent thereto; the GOLD MEDAL, or FIFTY GUINEAS.

The discovery to be ascertained by satisfactory CERTIFICATES under the hand and seal of the governor or commander in chief for the time being, and of some other respectable persons, inhabitants of the islands, or other place, in which the remedy has been successfully applied, such CERTIFICATES to be delivered to the Society on or before the first Tuesday in January, 1804.

188. CULTIVATION OF HEMP IN UPPER AND LOWER CANADA. To the person who shall sow with hemp the greatest quantity of land in the province of Upper Canada, not less than six arpents (each four fifths of a statute acre), in the year 1803, and shall, at the proper season, cause to be plucked the summer hemp (or male hemp bearing no seed), and continue the winter hemp (or female hemp bearing seed), on the ground until the seed is ripe; the GOLD MEDAL, or ONE HUNDRED DOLLARS.

189. To

189. To the person who shall sow with hemp the next greatest quantity of land in the same province of Upper Canada, not less than five arpents, in the year 1803, in the manner above mentioned; the SILVER MEDAL, or EIGHTY DOLLARS.

190. For the next greatest quantity of land, in the same province, and in a similar manner, not less than four arpents; SIXTY DOLLARS.

191. For the next greatest quantity of land, in the same province, and in a similar manner, not less than three arpents; FORTY DOLLARS.

192. For the next greatest quantity of land, in the same province, and in a similar manner, not less than one arpent; TWENTY DOLLARS.

CERTIFICATES of the number of arpents, the method of culture, of the plucking of the hemp, with a general ACCOUNT whether sown broad-cast or in drills, the expense, soil, cultivation, and produce, to be transmitted to the Society, certified under the hand and seal of the governor or lieutenant-governor, together with 28lb. of the hemp, and two quarts of the seed, on or before the last Tuesday in November, 1804.

193, 194, 195, 196, 197. The same premiums are extended one year farther.

CERTIFICATES, &c. as before mentioned, to be transmitted to the Society, on or before the last Tuesday in November, 1805.

198 to 208. Premiums exactly similar in all respects to those held out for the province of Upper Canada, are also offered for the province of Lower Canada, and are extended to the same period.

209. IMPORTATION OF HEMP FROM CANADA. To the master of that vessel which shall bring to this Country the greatest quantity of marketable hemp, not less than one hundred tons, in the year 1803, the produce of Upper or Lower Canada; the GOLD MEDAL.

210. To the master of that vessel which shall bring the next quantity, not less than fifty tons; the SILVER MEDAL.

CERTIFICATES satisfactory to the Society to be produced by the master of the vessel on or before the first Tuesday in February, 1804, to testify that such hemp was grown and prepared in Canada.

211, 212. The same premiums are extended one year farther.

CERTIFICATES to be produced on or before the first Tuesday in February, 1805.

*Premiums offered for the Advantage of the
British Settlements in the East Indies.*

213. BHAUGULPORE COTTON. To the person who shall import into the port of London, in the year 1803, the greatest quantity, not less than one ton, of the Bhau-gulpore cotton, from which clothes are made in imitation of nankeen, without dying; the **GOLD MEDAL**.

A quantity of the cotton, not less than five pounds weight in the pod, and five pounds carded, to be produced to the Society, with proper **CERTIFICATES**, signed by the Secretary to the Board of Trade of Bengal or Bombay, on or before the last Tuesday in February, 1804.

214. The same premium is extended one year farther.

CERTIFICATES to be produced on or before the last Tuesday in February, 1805.

215. ANNATTO. To the person who, in the year 1803, shall import into the port of London, from any part of the British settlements in the East Indies, the greatest quantity of annatto, not less than five hundred weight; the **GOLD MEDAL**.

A quantity of the annatto, not less than ten pounds weight, to be produced to the Society, with proper **CERTIFICATES**, signed by the Secretary to the Board of Trade of the respective settlement, that the annatto is the produce

of such settlement, on or before the last Tuesday in February, 1804.

216. The same premium is extended one year farther.

CERTIFICATES to be produced on or before the last Tuesday in February, 1805.

217. TRUE COCHINEAL. To the person who, in the year 1803, shall import into the port of London, from any part of the British settlements in the East Indies, the greatest quantity of true cochineal, not less than five hundred weight; the GOLD MEDAL.

A quantity of the cochineal, not less than ten pounds weight, with proper CERTIFICATES, signed by the Secretary to the Board of Trade of the respective settlement, that the cochineal is the produce of such settlement, to be produced to the Society on or before the first Tuesday in February, 1804.

218. The same premium is extended one year farther.

CERTIFICATES to be produced on or before the first Tuesday in February, 1805.

CONDI-

CONDITIONS FOR THE POLITE ARTS.

No person who has gained the first premium in any class, shall be admitted a candidate in a class of an inferior age; and no candidate shall receive more than one premium in one year; nor shall they who for two successive years have gained the first premium in one class, be again admitted as candidates in that class.

No person shall be admitted a candidate in any class, who has three times obtained the first premium in that class.

No more than one performance in any class shall be received from the same candidate.

All performances (to which premiums or bounties are adjudged) shall remain with the Society till after the public distribution of rewards in May, when they will be re-delivered unless mentioned in the premiums to the contrary.

No performance shall be admitted, that has obtained a premium, reward, or gratification, from any other Society, academy, or school, or been offered for that purpose.

All performances that obtain premiums in the Polite Arts, must have been begun after the publication of such premiums, except line engravings.

To encourage real merit, and prevent attempts to impose on the Society, by producing drawings, made or retouched by any other person than the candidate, the Society require a specimen of the abilities of each successful candidate, under the inspection of the Committee of the Polite Arts, in every instance where such proof may appear necessary.

All candidates in the Polite Arts are required to signify, on their drawings, their age, and whether the performances are originals or copies, and if copies, whence they were taken.

Society's

Society's Office, Adelphi, June 1st, 1803.

ORDERED,

, THAT THE SEVERAL CANDIDATES AND CLAIMANTS TO WHOM THE SOCIETY SHALL ADJUDGE PREMIUMS OR BOUNTIES, DO ATTEND AT THE SOCIETY'S OFFICE IN THE ADELPHI, ON THE LAST TUESDAY IN MAY, 1804, AT TWELVE O'CLOCK AT NOON PRECISELY, TO RECEIVE THE SAME; THAT DAY BEING APPOINTED BY THE SOCIETY FOR THE DISTRIBUTION OF THEIR REWARDS; AND BEFORE THAT TIME NO PREMIUM OR BOUNTY WILL BE DELIVERED, EXCEPTING TO THOSE WHO ARE ABOUT TO LEAVE THE KINGDOM.

IN CASES WHERE THE SOCIETY MAY THINK FIT TO ADMIT EXCUSES FOR NOT ATTENDING IN PERSON, DEPUTIES MAY BE SUBSTITUTED TO RECEIVE THE REWARDS, PROVIDED SUCH DEPUTIES ARE EITHER MEMBERS OF THE SOCIETY OR THE SUPERIOR OFFICERS THEREOF.

GENERAL

GENERAL CONDITIONS.

As the great object of the Society in rewarding individuals is to draw forth and give currency to those inventions and improvements which are likely to benefit the public at large, Candidates are requested to observe, that if the *means* by which the respective objects are effected, do require an expense or trouble too great for *general purposes*, the Society will not consider itself as bound to give the offered *reward*; but though it thus reserves the power of giving in all cases such part only of any premium as the performance shall be adjudged to deserve, or of withholding the whole if there be no merit, yet the candidates may be assured the Society will always judge liberally of their several claims.

It is required that the matters for which premiums are offered be delivered in without names or any intimation to whom they belong; that each particular thing be marked in what manner each claimant thinks fit, such claimant sending with it a paper sealed up, having on the outside a corresponding mark, and on the inside, the claimant's name and address; and all candidates are to take notice, that no claim for a premium will be attended to, unless the conditions of the advertisement are fully complied with.

No papers shall be opened, but such as gain premiums; unless where it appears to the Society absolutely necessary for the determination of the claim; all the rest shall be returned unopened, with the matters to which they belong, if inquired after by the mark, within two years.

All

All models of machines, which obtain premiums or bounties; shall be the property of the Society, and, where a premium or bounty is given for any machine, a perfect model thereof shall be given to the Society.

All the premiums of this Society are designed for Great Britain and Ireland, unless expressly mentioned to the contrary.

The claims shall be determined as soon as possible after the delivery of the specimens.

It is expected that all articles for claims or bounties be sent to the Society carriage paid.

No person shall receive any premium, bounty, or encouragement from the Society, for any matter for which he has obtained, or purposes to obtain, a patent.

A candidate for a premium, or a person applying for a bounty, being detected in any disingenuous method to impose on the Society, shall forfeit such bounty, and be deemed incapable of obtaining any for the future.

No member of this Society shall be a candidate for, or entitled to receive any premium, bounty, or reward whatsoever, except the honorary medal of the Society. The candidates are, in all cases, expected to furnish a particular account of the subject of their claims; and where certificates are required to be produced in claim of premiums, they should be expressed, as nearly as possible, in the words of the respective advertisements, and be signed by persons who have a positive knowledge of the facts stated.

Where premiums or bounties are obtained in consequence of specimens produced, the Society mean to retain such part of those specimens as they may judge necessary, making a reasonable allowance for the same.

No

No candidates shall be present at any meeting of the Society or Committees, or admitted at the Society's rooms, after they have delivered in their claims, until such claims are adjudged, unless summoned by the Committee.

N. B. The Society farther invite the communications of scientific and practical men upon any of the subjects for which premiums are offered, although their experiments may have been conducted upon a smaller scale than the terms of each require, as they may afford ground for more extensive application, and thus materially forward the views of the Society, and contribute to the advantage of the public. Such communications to be made by letter, addressed to the Society, and directed to Mr. CHARLES TAYLOR, the Secretary, at the Society's Office, in the Adelphi, London.

The models required by the Society should be upon the scale of one inch to a foot. The Winchester bushel is the measure referred to for grain; and as the acres of different districts vary in extent, it is necessary to observe, that the Society mean Statute Acres, of five and a half yards to the rod or pole, when acres are mentioned in their list of premiums; and they request that all communications to them may be made agreeably thereto.

The Society desire that the Papers on different subjects sent to them may be full, clear, explicit, fit for publication, and rather in the form of Essays than of Letters; and where descriptive Drawings can be conveniently sent, with the Models and Machines laid before the Society, it is recommended to be done.

Presents to the Society, of Books for their Library, will be thankfully received and acknowledged.

* * To

. To persons inclined to leave a sum of money to this Society by will, the following form is offered for that purpose.

Item. I give and bequeath to A. B. and C. D. the sum of _____ upon condition and to the intent that they, or one of them, do pay the same to the Collector for the time being, of a Society in London, who now call themselves the Society for the Encouragement of Arts, Manufactures, and Commerce; which said sum of _____ I will and desire may be paid out of my personal estate, and applied towards the carrying on the laudable designs of the Society.

By Order of the Society,

CHARLES TAYLOR, Secretary.